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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/805,427	03/13/2001	Peter Andersen	670001-2002.5

CONFIRMATION NO. 2084

## FORMALITIES LETTER



\*OC000000006871661\*

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c/o FROMMER LAWRENCE & HAUG LLP  
745 Fifth Avenue  
New York, NY 10151

Date Mailed: 10/09/2001

DOCKETED

## NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

*Filing Date Granted*

The U.S. Patent and Trademark Office has received your reply on 07/11/2001 to the Notice to File Missing Parts (Notice) mailed 05/11/2001 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice.

The period of reply remains as set forth in the Notice. You may, however, obtain EXTENSIONS OF TIME under the provisions of 37 CFR 1.136 (a) accompanied by the appropriate fee (37 CFR 1.17(a)).

A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application.

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or [patin3help@uspto.gov](mailto:patin3help@uspto.gov)

2001 OCT 15 A 9:22  
FROMMER, LAWRENCE  
& HAUG, LLP

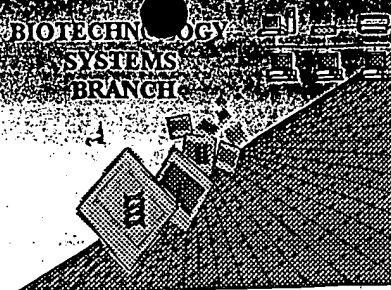
A copy of this notice MUST be returned with the reply.

*Alma*

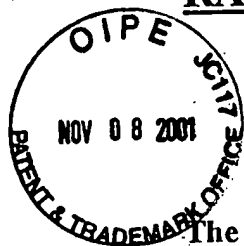
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/805,427

Source: OIPE

Date Processed by STIC: 9/24/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**


# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/805,427

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics  
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino  
Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0  
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences  
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences  
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 Use of n's or Xaa's  
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>  
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>  
 Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0  
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,427

DATE: 07/24/2001

TIME: 10:49:10

Input Set : A:\PTO\_VSK.txt

Output Set: N:\CRF3\07242001\I805427.raw

Does Not Comply  
Corrected Diskette Needed

4 <110> APPLICANT: Statens Serum Institut  
 6 <120> TITLE OF INVENTION: Hybrids of M. tuberculosis Antigens  
 9 <130> FILE REFERENCE: 20486US03  
 11 <140> CURRENT APPLICATION NUMBER: US/09/805,427  
 11 <141> CURRENT FILING DATE: 2001-03-13  
 11 <160> NUMBER OF SEQ ID NOS: 12  
 13 <170> SOFTWARE: FastSEQ for Windows Version 3.0

## ERRORED SEQUENCES

273 <210> SEQ ID NO: 12  
 274 <211> LENGTH: 20  
 275 <212> TYPE: DNA  
 276 <213> ORGANISM: Artificial Sequence  
 W--> 277 <220> FEATURE: oligonucleotide  
 W--> 277  
 W--> 279 <223> OTHER INFORMATION:  
 279 <400> SEQUENCE: 12  
 280 ccttcggtgg atcccgtcag  
 W--> 285 PATENT  
 E--> 286 670001-2002.5  
 E--> 287 1  
 E--> 290 sequence Listing 07/24/01  
 W--> 291 PLOUGMANN, VINGTOFT & PARTNERS  
 E--> 293 20486us03/as/07/24/01

(Global error)  
 Do NOT insert a response for 22207. 22207  
 is a "header" only. Explanation for  
 Artificial Sequence or Unknown goes on  
 20 22237 line

delete

FYI, "oligonucleotide" is  
 an invalid explanation  
 for Artificial Sequence (or  
 Unknown). Give source  
 of genetic material, see  
 Item 11 on Euro Summary  
 sheet. Please  
 correct all  
 sequence status,  
 this error.

see next page for more errors

The types of errors shown exist throughout  
 the Sequence Listing. Please check subsequent  
 sequences for similar errors.

&lt;210&gt; 3

&lt;211&gt; 404

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt; oligonucleotide

*another example of global error*

&lt;400&gt; 3

Met Ala Thr Val Asn Arg Ser Arg His His His His His His His His  
1 5 10 15

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/805,427

DATE: 07/24/2001

TIME: 10:49:11

Input Set : A:\PTO\_VSK.txt

Output Set: N:\CRF3\07242001\I805427.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:91 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:91 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:93 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:151 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:151 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:153 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:212 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:223 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:223 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:225 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:232 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:232 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:234 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:241 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:241 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:243 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:250 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:250 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:252 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:259 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:259 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:261 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:268 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:268 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:270 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:277 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:277 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:279 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:285 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1  
 L:286 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:286 M:254 E: No. of Bases conflict, LENGTH:Input:5 Counted:22 SEQ:12  
 L:286 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12  
 L:287 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:22 SEQ:12  
 L:290 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12  
 L:290 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12  
 L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
 L:290 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:39 SEQ:12  
 L:290 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13  
 L:290 M:112 C: (48) String data converted to lower case,  
 L:291 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:4  
 L:293 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:12  
 L:293 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:47 SEQ:12  
 L:293 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15  
 L:293 M:112 C: (48) String data converted to lower case,  
 L:293 M:252 E: No. of Seq. differs, <211>LENGTH:Input:20 Found:47 SEQ:12